



# UNITED STATES ENVIRONMENTAL PROTECTION .: GENCY REGION 5 230 SOUTH DEARBORN ST. CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF: 5HS-11

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Carter Industrials site in Detroit, Michigan
Unilateral Administrative Order pursuant to §106 of CERCLA

Dear Sir or Madam:

By letter dated February 28, 1989, the United States Environmental Protection Agency (U.S. EPA) issued you an amended Unilateral Administrative Order ("Order"). The Order required Potentially Responsible Parties (PRPs) to undertake and complete interim site safety measures, removal activities and post-cleanup sampling and analysis at the above-referenced site. The effective date of that Order was April 10, 1989.

The above referenced order has been revised to allow for two notification dates, the first involving the willingness to undertake and complete interim site stabilization measures, and the second indicating the willingness to undertake implementation of the final removal alternative which is selected by the U.S. EPA after opportunity for public comment has been given. The schedule of actions required under the order has been revised and is included herein. The effective date of this order is still April 10, 1989, and it supersedes all previously issued or amended versions.

If you have any questions, please call either Jon Peterson at (312) 353-1264 or Timothy Thurlow at (312) 886-6623.

Sincerely yours,

Way a Sac Basil G. Constantelos

Director, Waste Management Division

Enclosures

cc: Claudia Kerbawy, MDNR Denise Gruben, MDNR

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

IN THE MATTER OF:	)	Docket No.	V <del>W-</del> 89-C-002
Carter Industrials, Inc.	ý	ADMINISTRATIV	VE ORDER PURSUANT
Wayne County	)	TO SECTION 10	06 OF THE COMPRE-
Detroit, Michigan	) )		IRONMENTAL RESPONSE , AND LIABILITY ACT
Respondents:	)	OF 1980 as an Section 9606	mended, 42 U.S.C.
(See Attached Service List)	j		•

#### PREAMBLE

This Administrative Order (Order) is issued on this date to Respondents listed in Attachment #1.

This Order is issued pursuant to the authority vested in the President of the United States by Section 106(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. Section 9606(a), as amended by the Superfund Amendments and Reauthorization Act of 1986 Pub. L. 99-499 (CERCIA), and delegated to the Administrator of the United States Environmental Protection Agency (U.S. EPA) by Executive Order No. 12580, January 23, 1987, 52 Federal Register 2923, and further delegated to the Assistant Administrator for Solid Waste and Emergency Response and the Regional Administrators by U.S. EPA Delegation Nos. 14-14 and 14-14-A, and to the Director, Waste Management Division, Region V, by Regional Delegation 14-14B.

The State of Michigan has been notified of the issuance of this Order as required by Section 106(a) of CERCIA, 42 U.S.C. Section 9606(a).

This Order requires the Respondent(s) to undertake and complete removal activities at the site to abate an imminent and substantial endangerment



to the public health and welfare or the environment arising from the release of hazardous substances at the site.

# **FINDINGS**

- 1. The office of Carter Industrials, is located at 4690 Humboldt Street in Detroit, Michigan. The site (hereinafter referred to as the "Carter site") encompasses this and adjacent properties. It is situated approximately 1/2 mile southeast of the intersection of interstate highways 96 and 94.
- 2. From 1966 to 1986, the Carter site was used to store and salvage scrap metal. From 1966 to 1971, the site was operated by Spector-Carter Metal, while from 1971 to 1986, Carter Industrials, Inc. operated the site. A portion of the scrap metal items accepted at the Carter site included electrical capacitors and transformers.
- 3. During salvage operations at the site, dielectric fluids containing PCBs were spilled from electrical capacitors and transformers, contaminating soil in the immediate area. Commercial, municipal and residential properties adjacent to the site were contaminated by direct runoff of spilled material, contaminated storm water runoff, wind-blown dust, and tracking of spilled material and contaminated soils by vehicular traffic.
- 4. In May 1986, the Michigan Department of Natural Resources (MDNR) collected soil samples at the site, revealing PCB contamination at concentrations of up to 510,000 parts per million (ppm). On June 3, 1986, MDNR referred the site to the Emergency Response Section of the U.S. EPA (Region V).

- 5. Federal response actions commenced on June 6, 1986, when U.S. EPA's Technical Assistance Team (TAT) started an extent of contamination study. This study, which included the collection and analysis of over 2000 samples, identified on-site and off-site areas requiring clean-up.
- 6. U.S. EPA's Region V Emergency Response Section initiated a removal action concurrently with this study. These actions were intended as interim stabilization measures to confine PCB contamination to the Carter site. U.S. EPA's activities consisted of the following major tasks:
  - a. The stabilization of uncontrolled site perimeters was accomplished by pushing highly-contaminated areas of the perimeter back towards the site interior in order to reduce any further migration of contaminants. In addition, some areas of the site surface were cleared of debris to accommodate the staging of the consolidated contaminated soils from off-site areas.
  - b. Contaminated soils and debris from the surrounding neighborhood were excavated and consolidated into waste piles on-site.
  - c. Identifiable PCB items (e.g. capacitors and oils) were removed from the site for off-site disposal (incineration).
  - d. Larger pieces of scrap metal found on the surface of the site were decontaminated and removed from the site.
  - e. Municipal streets and alleys in an approximately four square block area surrounding the site were decontaminated.
  - f. Several alleyways in the vicinity of the site were unable to be cleaned adequately and were repaved.

- g. The site was graded to direct runoff toward the southeast section of the site where a system of interception trenches, collection tanks, and mixed media filter units collect and treat the runoff water.
- h. A 6-foot chain-link cyclone fence topped with three strands of barbed wire was erected around the site to prevent unauthorized entry.
- 7. In September and October of 1986, the U.S. EPA and MDNR staff sampled rain gutter sediments and debris in the vicinity of the Carter site. The purpose of this sampling was to determine if PCBs had been transported aerially into the surrounding community. These data show a general radial pattern with PCB levels tending to decrease in a given direction as the distance from the site is increased. PCB levels for the rain gutters sampled ranged from non-detectable to 38 milligrams per kilogram (mg/kg).
- 8. In October 1986, the TAT took samples from the waste piles, surface soils, subsurface soils, groundwater, and a seep encountered below the surface. Although PCBs were the prime contaminant of concern, sampling and analytical efforts have also revealed the presence of heavy metal contamination in site ash and soil materials. The maximum concentrations of total PCBs and heavy metals in parts per million were as follows:

WASTE	PILES	ASH	SOIL BELOW WASTE PILES	SOIL IN OPEN AREAS
# SAMPLES	7	3	44	41
Max. PCB Conc.	240	12,000	6,800	7,400
Max. Lead Conc.	990	28,000	330	210
Max. Cadmium Conc.	24	34	2.5	6.7
Max Copper Conc.	1600	17,000	36	310
Max Zinc Conc.	2,900	8,500	130	410
Max. Arsenic Conc.	1.7	.56	4.8	1.4

- 9. Two buildings and an incinerator on-site were sampled revealing concentrations of PCBs ranging from 6 to 100 micrograms per 100 square centimeters for wipe samples and 85-900 ppm for floor sweep samples.
- 10. In October 1986, a site inspection report was prepared by the MDNR. Following this, the site was evaluated for the National Priorities List (NPL) using the "Uncontrolled Hazardous Waste Site Ranking System" (HRS). The site received a score of 37.79, making it eligible for inclusion on the NPL. The site was proposed for inclusion on the NPL on June 24, 1988 and was listed on March 31, 1989.
- 11. Sampling undertaken by the MDNR and the City of Detroit in September and October of 1986 has detected PCB contamination at levels up to 4900 mg/kg in the city sewer lines immediately adjacent to the Carter site and along the connecting 18<sup>th</sup> Street line to the Detroit River.
- 12. Despite security fencing, 24-hour armed guards, and stepped up Detroit Police patrols, the site has been broken into repeatedly since the U.S. EPA removal action began. Vandals have gained access by removing security fencing, thereby providing unrestricted access to the site by children living nearby. Vandals have repeatedly removed contaminated scrap metal, knocked out walls and broken into contaminated buildings, and vandalized three large transformers on the site. In addition, vandals set fires to the vegetative cover (grass) which was planted on the waste piles to reduce migration of contamination.
- 13. In October 1988, U.S. EPA acted to improve site security by repairing vandalized fencing. U.S. EPA also attempted to reduce the attractiveness of the site to vandals by removing as much scrap metal and debris as possible.

- 14. During the 1988 removal action, an underground fuel storage tank was identified at the site. The contents of the tank consists of a 50/50 mixture of gasoline and water.
- 15. An Endangerment Assessment was completed by the U.S. EPA on January 20, 1989. This assessment reveals that persons in the vicinity of the site may be exposed to significant risks of both carcinogenic and non-carcinogenic effects.

# **DETERMINATIONS**

- 1. Carter Industrials is a "facility" as defined by Section 101(9) of CERCIA, 42 U.S.C. Section 9601(9).
- 2. Each Respondent is a "person" as defined by Section 101(21) of CERCIA, 42 U.S.C. Section 9601(21).
- 3. Respondents (Attachment #1) are either past owners or operators of the Carter site, or those who arranged for disposal or treatment or transport for disposal or treatment of hazardous substances at the Carter site. Respondents are therefore liable persons under Section 107(a) of CERCIA, 42 U.S.C. Section 9607.
- 4. PCBs are "hazardous substances" as defined by Section 101(14) of CERCIA, 42 U.S.C. Section 9601(14). PCBs are capable of causing both short-term and long-term local and systemic health effects in humans. Living organisms may accumulate PCBs by absorption, inhalation and ingestion. PCBs have a long retention time in living organisms and each succeeding ingestion of PCBs contributes to a net accumulation. PCBs are known to bio-accumulate in the food chain.

- 5. PCBs have been shown to produce a variety of adverse effects in studies of aquatic organisms and experimental animals. Such effects are related to the dose of PCBs received, so that a higher dose produces a greater effect. Effects of PCBs observed in experimental animals include weight loss, liver injury, atrophy of lymphoid tissue with suppression of immune response, reproductive impairment such as infertility and low birth rate, carcinogenicity, and death.
- 6. Persons exposed to PCBs can develop chloracne and based on laboratory animal data, there is a potential for reproductive effects and developmental toxicity as well as oncogenicity in humans exposed to PCBs. PCBs are very stable compounds which can persist for years when released into the environment. Based upon the documented health impacts on humans and the experimental results with laboratory animals, PCBs are a suspected human carcinogen.
- 7. Lead, cadmium, and arsenic are "hazardous substances" as defined by Section 101(14) of CERCIA, 42 U.S.C. Section 9601(14). Persons exposed to lead may suffer fatigue, sleep disturbances, constipation, colic, anemia, neuritis, loss of appetite, encephalopathy (which may include learning defects in children), premature deliveries or spontaneous abortions in pregnant women or sterility in men. Cadmium toxicity may manifest itself in the form of kidney damage, severe joint and muscle pain, decreased testosterone levels and possible carcinogenic effects. Human effects of arsenic toxicity include skin lesions, peripheral vascular disease, and peripheral neuropathy. Arsenic is also a suspected human carcinogen.

- 8. The presence of hazardous substances in the soil at the Carter site constitutes an actual or threatened "release" as that term is defined in Section 101(22) of CERCIA, 42 U.S.C. Section 9601(22).
- 9. The actual or threatened release of hazardous substances from the Facility presents an imminent and substantial endangerment to the public health, welfare, or the environment.
- 10. The actions required by this Order, if properly performed, are consistent with the National Contingency Plan (NCP), 40 CFR Part 300, as amended, and CERCIA; and are reasonable and necessary to protect the public health, welfare and the environment.
- 11. The conditions present at the Facility constitute a threat to public health or welfare or the environment based upon consideration of the factors set forth in the NCP, Section 300.65(b)(2). These factors include, but are not limited to, the following:
  - a. "actual or potential exposure to hazardous substances or pollutants or contaminants by nearby populations, animals, or food chain";

Past experience has shown that it is difficult, if not impossible, to restrict access completely to the Carter site. As long as PCB waste piles and PCB contaminated buildings remain, in addition to heavy metal contaminated soil, those entering the Carter site will be exposed to these materials. Moreover, the current condition of the waste piles may allow PCBs and heavy metals to migrate into the surrounding residential area through erosion, etc.

b. "high levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate;" The contaminated soils on-site present a potential for release of contaminants through airborne particulates and volatilization. The occurrence of such migration has been demonstrated in several different ways. The first air sampling data available for the Carter site measured particulate and volatile PCBs during June and July, 1986. revealed particulate time-weighted average PCB concentrations ranging from <0.1 to 1 microgram per cubic meter and volatile PCB concentrations ranging from .1 to 2 micrograms per cubic meter. Sampling of roof gutter sediments in the vicinity of the site has shown PCBs to be present at higher concentrations at locations nearer the site with levels diminishing as the distance in a particular direction from the site increases. Furthermore, PCBs may be tracked off the site by pedestrians Finally, PCB-contaminated sediments in the city sewer or vehicles. leading from the Carter site may be carried away by storm runoff and released into the Detroit River. The Endangerment Assessment calculates the incremental carcinogenic risk as high as 4E-02 for persons exposed to these substances through inhalation of volatilized compounds at a distance of 1000 meters downwind of the site.

# c. "threat of fire or explosion;"

Compressed gas cylinders in poor condition are being found throughout the site. If one of these gas cylinders ruptures, it could result in an explosion or fire which, in turn, might result in dispersing hazardous substances. In addition, there is an underground fuel storage tank filled with a mixture of gasoline and water which presents a threat of fire or explosion. As mentioned above, grass fires on the site promote the erosion of waste piles, which increases the likelihood of exposure to

PCBs via volatilization and particulate migration. Moreover, PCB contaminated soils which are subjected to thermal stress are of concern because of the potential for release of airborne toxic byproducts to the surrounding neighborhood.

12. U.S. EPA has determined that the cleanup work required to address the hazards presented at the Carter site should be divided into two phases. The first phase consists of tasks which must be undertaken immediately to stabilize the site. Shortly after the Respondents have initiated these site stabilization measures, U.S. EPA will release for public comment its Engineering Evaluation/Cost Analysis (EE/CA) of removal alternatives at the Carter site together with the Agency's proposed selection of the appropriate removal alternative. The Agency will allow thirty (30) days for public comments, during which time members of the general public and the Respondents will have the opportunity to comment upon the chosen alternative. After the close of the public comment period, U.S. EPA will prepare a written response to comments and will announce the removal alternative to be implemented at the site. At this point, the second phase of the cleanup will begin, consisting of activities necessary to implement the removal alternative chosen by U.S. EPA.

## <u>ORDER</u>

Based upon the foregoing Findings and Determinations, and pursuant to Section 106(a) of CERCIA, 42 U.S.C. Section 9606(a), it is hereby Ordered that Respondents undertake the following actions at the Facility:

- 1. On or before May 12, 1989, the Respondents shall undertake the interim site safety measures, and operation and maintenance duties outlined below:
  - a. Provide site security and 24 hour surveillance.
  - b. Repair any breaches which develop and maintain the fence surrounding the site as such repairs become necessary.
  - c. Take over operation and maintenance of the runoff collection and treatment system. This includes, monthly sampling and analysis of the runoff collection and treatment system discharge to determine whether the filtration system is meeting the required PCB discharge criteria prior to its entering the Detroit City Sewer system. Samples should be analyzed for the following: PCBs to a detection limit of 0.2 parts per billion (ppb) for each Arochlor, Total Suspended Solids and Oil and Grease. The limits in effect for discharge into the Detroit City Sewer system are: less than 1.0 ppb for total PCB, and less than 0.5 ppb of Arochlor 1260. The Respondents shall change the filters in the treatment system tanks whenever these limits are approached or exceeded.
  - d. Provide for at least monthly inspection of the mechanical and electrical components of the water treatment system.
  - e. The Respondents shall accept transfer of the account for electrical services for the treatment system pumps into their name and pay for all charges.
  - f. The Respondents shall provide for the immediate placement of a temporary vegetative cover on all presently unvegetated surface soils and soil piles within the site's perimeters. This process shall be accomplished using a "hydroseeding" technique in which the seed, nutrient, and mulching materials are remotely sprayed (from outside the site perimeter) onto the site. The slopes and

crests of all soil piles shall be stabilized with geotextile mesh fabric, prior to hydroseeding, to prevent erosional losses of newly applied materials. Respondents shall additionally provide for the maintenance (irrigation, nutrient addition, reseeding, mowing) necessary for the development and retention of a thick uniform vegetative cover at the site.

- g. The Respondents shall develop a Health and Safety Plan and Emergency Contingency Plan for the Phase I Stabilization activities. The Health and Safety Plan shall be prepared as described in paragraph 7 of this Order and should establish safety protocols for at least the following onsite activities: fence repair, treatment system operation and maintenance, grass fires, mowing, irrigation and trespassing.
- 2. Respondents shall retain a consultant/contractor qualified to undertake and complete the requirements of this Order, and shall notify U.S. EPA and MDNR of the name of such contractor(s) on or before May 12, 1989. U.S. EPA retains the right to disapprove of any, or all of the contractors and/or subcontractors retained by the Respondents. In the event U.S. EPA disapproves of a selected contractor, Respondents shall retain a different contractor to perform the work, and such selection shall be made within two (2) business days following U.S. EPA's disapproval.
- 3. On or before May 12, 1989, Respondent(s) shall provide notice, verbally or in writing, to U.S. EPA stating their intention to comply with paragraphs 1 and 2 of this Order. Verbal notification must be followed in writing by May 17, 1989. In the event any Respondent fails to provide such notice, that Respondent shall be deemed not to have complied with the terms of this Order.

- 4. Within five (5) calendar days of the date U.S. EPA announces its selection of a removal alternative for the Carter site, Respondent(s) shall provide notice, verbally or in writing, to U.S. EPA stating their intention to implement the removal alternative under the terms of this Order. Verbal notification must be followed in writing within ten (10) calendar days of the date U.S. EPA announces its selection of a removal alternative for the Carter site. In the event any Respondent fails to provide such notice, that Respondent shall be deemed not to have complied with the terms of this Order.
- 5. Within ten (10) calendar days after U.S. EPA announces the selected removal alternative to be implemented at the Carter site, the Respondents shall submit to U.S. EPA and MDNR an outline of a Workplan for the selected removal alternative as set forth in Paragraph 8 below. This outline will be reviewed, modified and/or approved by the U.S. EPA, in consultation with the MDNR.
- 6. Within thirty (30) calendar days after EPA approval of the outline of the Workplan, the Respondents shall submit to U.S. EPA and MDNR, a complete Workplan for the removal activities ordered as set forth in Paragraph 8 below. The Workplan shall provide a concise description of the activities to be conducted to comply with the requirements of this Order. The Workplan shall also contain the following items: 1) a health and safety plan; 2) a preliminary sampling and analysis plan; 3) a plan for maintaining quality assurance and quality control of all removal and sampling activities undertaken by the Respondents; 4) a post clean-up sampling and analysis plan designed to evaluate the effectiveness of the removal activities after they are completed; NOTE: This program shall

provide for determination of all Target Analyte List (TAL) and all Target Compound List (TCL) parameters; 5) a detailed description of any arrangements for disposal of hazardous substances off-site; and 6) a schedule for the completion of the work to be performed. The Workplan shall be reviewed by U.S. EPA and may be subject to modification in part or whole by the U.S. EPA in consultation with the MDNR. Respondents shall implement the Workplan as modified and approved by U.S. EPA. Upon approval by U.S. EPA, the Workplan shall become an enforceable part of this Order. In the event that U.S. EPA, in consultation with the MDNR, disapproves the Workplan, Respondents shall submit a revised Workplan within five (5) business days following U.S. EPA's disapproval of the same.

- 7. The site Health and Safety Plan shall be prepared in accordance with the Occupational Safety and Health Administration (OSHA) regulations applicable to Hazardous Waste Operations and Emergency Response, 29 CFR Part 1910. The Workplan and other submitted documents shall demonstrate that the Respondent can properly conduct the actions required by this Order.
- 8. EPA retains the right to request modifications or additions to the Workplan. Within ten (10) calendar days following EPA approval of the Workplan, Respondents shall implement the Workplan as approved or modified by U.S. EPA. Failure of the Respondents to properly implement all aspects of the Workplan shall be deemed to be a violation of the terms of this Order. The Workplan shall require the Respondents to perform, and complete the following removal activities:

- a. The respondents shall design and implement the removal alternative selected by U.S. EPA. The site cleanup shall also provide for removal and disposal of the liquid present in the underground storage tank discovered at the site, excavation and removal of the underground storage tank, and sampling and removal of soil which was contaminated by leakage from the tank.
- b. A post clean-up sampling and analysis program shall be undertaken to ensure the adequacy of removal. Soils adjacent to the underground fuel storage tank discovered in the 1988 removal action, shall be sampled and analyzed to assure the removal of all associated contaminants is also complete. The sampling and analysis plan shall also provide for determination of representative background levels for heavy metals in typical residential areas around Detroit.
- c. The post clean-up sampling program shall also include a PCB assessment to determine the extent of contamination of sewer lines adjacent to the Carter site, down 18th Street to the combined sewer overflow at the Detroit River.
- d. If the results of the post clean-up sampling program reveal PCB or heavy metal levels greater than those established by U.S. EPA consequent to the selection of the removal alternative, removal activities and followup sampling shall continue until these standards have been achieved. If the PCB assessment of the sewer lines required in paragraph (6c) reveal PCB levels greater than the levels established by U.S. EPA consequent to the selection of the removal alternative, a remediation program for the PCBs in the sewer lines will be required.
- e. When followup sampling has verified that the target cleanup levels have been achieved, areas where excavation has occurred shall be backfilled with clean material consistent with the Toxic Substances Control Act (TSCA) PCB Spill Policy (Final Rule: 40 CFR Part 761; April 2, 1987) and as directed by the On-Scene Coordinator (OSC).

- 9. Any materials removed from the Carter site shall be disposed of or treated at facilities approved by the U.S. EPA OSC and, in addition, in compliance with applicable or relevant and appropriate provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Section 6901 et seq., the Toxic Substance Control Act (TSCA), 15 U.S.C. Section 2601, et seq., and other Federal, State, and local requirements, as well as U.S. EPA's Off-site Response Policy. (Memo from J. Winston Porter dated: November 13, 1987).
- 10. The U.S. EPA, MDNR, and the Respondent(s) shall each have the right to change their respective designated On-Scene Coordinator or Project Coordinator. Such a change shall be accomplished by notifying the other parties as early as possible before such a change is made, but in no case less then 24 hours before such a change. Notification may initially be verbal, but shall promptly be followed-up in writing.
- 11. The U.S. EPA On-Scene Coordinator shall have the authority vested in an On-Scene Coordinator by the NCP, 40 CFR Part 300, as amended, including the authority to halt, conduct, or direct any work required by this Order, or to direct any other response action undertaken by U.S. EPA or the Respondent(s) at the facility.
- 12. No extensions to the above time frames shall be granted without sufficient cause. All extensions must be requested, in writing, and shall not be deemed accepted unless approved, in writing, by U.S. EPA.
- 13. All instructions by the U.S. EPA On-Scene Coordinator or his designated alternate, consistent with the terms of this Order and with the NCP, 40 CFR Part 300, shall be binding upon the Respondent(s).

- 14. To the extent that the Facility or other areas where work under this Order is to be performed is under ownership or possession by someone other than the Respondent(s), Respondent(s) shall obtain all necessary access agreements. In the event that after using their best efforts, Respondents are unable to obtain such agreements, Respondent(s) shall immediately notify U.S. EPA and U.S. EPA shall then assist Respondent(s) in gaining access, to the extent of its authority.
- 15. Respondent(s) shall provide access to the Facility to U.S. EPA and MDNR employees, contractors, agents, and consultants at reasonable times, and shall permit such persons to be present and move freely in the area in order to conduct inspections, including taking photographs and videotapes of the Facility, to do cleanup/stabilization work, to take samples to monitor the work under this Order, and to conduct other activities which the U.S. EPA in conjunction with the MDNR, determines to be necessary.
- 16. Nothing contained herein shall be construed to prevent U.S. EPA from seeking legal or equitable relief to enforce the terms of this Order, or from taking other legal or equitable action as it deems appropriate and necessary, or from requiring the Respondents in the future to perform additional activities pursuant to CERCIA, 42 U.S.C. Section 9601 et seq., or any other applicable law.
- 17. The provisions of this Order and the directions of the On-Scene Coordinator shall be binding on the employees, agents, successors, and assigns of the Respondent(s).
  - 18. The effective date of this Order is April 10, 1989.

- 19. Copies of all records and files relating to hazardous substances found on the site shall be made available to the U.S. EPA On-Scene Coordinator and MDNR Project Coordinator prior to the termination of the cleanup of the site. Respondents shall retain during the pendency of this Administrative Order and for a period of ten (10) years after its termination, all records and documents in their possession, custody, or control which relate to the performance of this Administrative Order, including, but not limited to, documents reflecting the results of any sampling, tests, or other data or information generated or acquired by any of them, or on their behalf, with respect to the site. After the ten year period of document retention, Respondents shall notify U.S. EPA and MDNR, ninety (90) calendar days prior to the destruction of any such documents, and upon request by U.S. EPA or MDNR, Respondents shall relinquish custody of the documents to U.S. EPA and MDNR.
- 20. All notices, reports and requests for extensions submitted under terms of this Order shall be sent by certified mail, return receipt requested, with one copy addressed to each of the following:

Jon Peterson U.S. EPA 5HS-11 230 South Dearborn Chicago, IL 60604 Timothy Thurlow U.S. EPA 5CS-TUB-3 230 South Dearborn Chicago, IL 60604

Denise Gruben Mich. Dept. Nat. Res. Knapp's Centre 300 S. Washington Lansing, MI 48933

#### ACCESS TO ADMINISTRATIVE RECORD

The Administrative Record supporting the above Determinations and Findings is available for review on normal business days between the hours of 9:00 a.m. and 5:00 p.m. in the Waste Management Division, United States Environmental Protection Agency, Region V, 230 S. Dearborn St.,

11th Floor, Chicago, IL. Please contact Jon Peterson, Project Manager, at (312) 353-1264 to review the Administrative Record. The Administrative Record is also available for review at the address and during the hours listed below:

Address: The Reference Desk

Dept. of Sociology and Economics

c/o Librarian

Detroit Public Library

5201 Woodward

Detroit, MI 48202

Mon-Sat: 9:30am - 5:30pm

except Wed.: 9am-9pm

Closed Sunday

#### OPPORTUNITY TO CONFER

A conference was held among the Respondents, U.S. EPA and the MDNR At this conference the Respondents requested an on February 8, 1989. extension of the effective date of the original Order to allow them time to organize into a PRP Committee. In an effort to promote voluntary compliance U.S. EPA issued an amended Unilateral Administrative Order extending the effective date from February 13, 1989 to April 10, 1989. Following the initial meeting in Detroit, U.S. EPA, MDNR and Respondents discussed means of addressing the hazards to human health and the environment presented at the Carter site. In order to allow discussions to proceed in an orderly manner culminating in a selection of a removal alternative for the site, U.S. EPA is again amending its Unilateral This second amended Order provides Administrative Order. notification dates, one concerning willingness to implement site stabilization measures, and another concerning willingness to implement the selected removal alternative. This Administrative Order supersedes the Administrative Order issued on January 24, 1989 and amended on February 28, 1989.

The U.S. EPA Administrative Record Index and the Planning and Compliance Schedule attached to the January 24, 1989 Administrative Order, and referenced again in this Administrative Order, have been adjusted in response to requests made by the Respondents at the February 8, 1989 conference. The Administrative Record index was transmitted under separate cover. A tentative Planning and Compliance Schedule is enclosed herewith.

Any comments regarding this Order, its applicability, or any factual determinations upon which the Order is based, the appropriateness of any action which Respondent(s) are ordered to take, or any other relevant and material issue must be reduced to writing and submitted to U.S. EPA. Any such writing should be directed to Timothy Thurlow, Assistant Regional Counsel, at the address cited above.

Respondent(s) are hereby placed on notice that U.S. EPA will take any action which may be necessary in the opinion of U.S. EPA for the protection of public health and welfare and the environment, and Respondent(s) may be liable under Section 107(a) of CERCIA, 42 U.S.C. Section 9607(a), for the costs of those government actions.

#### PENALITIES FOR NONCOMPLIANCE

Respondent(s) are advised pursuant to Section 106(b) of CERCIA, 42 U.S.C. Section 9606(b), that willful violation or subsequent failure or refusal to comply with this Order, or any portion thereof, may subject the Respondent(s) to a civil penalty of no more than \$25,000 per day for each day in which such violation occurs, or such failure to comply continues. Failure to comply with this Order, or any portion thereof,

without sufficient cause may also subject the Respondent(s) to liability for punitive damages in an amount three times the amount of any cost incurred by the government as a result of the Respondent's failure to take proper action, pursuant to Section 107(c)(3) of CERCIA, 42 U.S.C. Section 9607(c)(3).

By: Wan a. S. Director
Basil G. Constantelos, Director
Waste Management Division
United States Environmental
Protection Agency
Region V

May 5 , 1989

Schedule Name:

Carter Industrials site — Amended Order

Issued: Project Manager:

May 5, 1989 Jon Peterson

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Resource delay (---類)

R Resource conflict

■ Milestone

> Conflict

p Partial dependency

Scale: Each character equals 1 day

TIME LINE Gantt Chart Report Graphics by: Peterson

### ERVICE LIST - CARTER INDUSTRIAL

Thomas Carter , 1826 Chatham Troy, MI 48084

City of Detroit Jefferson Avenue Sewage Treatment Plant 735 Randolph Detroit, MI 48226

Daria Killinger, on behalf of David & Mary Gordon; Gordon Elec. Detroit Edison Levin, Levin, Garret and Dill 3000 Town Center, Suite 1800 Southfield, MI 48075

Attn: S. Evan Weiner, V.P. Ed Levy Company 8800 Dix Avenue Dearborn, MI 48209

General Motors Corporation Central Foundry Division 1805 Veteran Memorial Parkway Saginaw, MI 48601

J.E. Berger Corporation P.O. Box 02669 5300 Bellevue Avenue Detroit, MI 48211

Attn: Robert P. Medsker Medsker Electric, Inc. 28650 Grand River Farmington, MI 48024

River Electric Co. Inc. P.O. Box 108 160 Catrell Drive Howell, MI 48844

Attn: George Friess, President Shaw Electric Company P.O. Box 2217 33200 Schoolcraft Road Livonia, MI 48150

Chrysler Corporation Sterling Heights Assembly Plnt 3811 Van Dyke Sterling Heights, MI 48659

Attn: Michael Grice Attn: Michael Grice Chrysler Corporation 12000 Chrysler Drive P.O. Box 2255 Detroit, MI 48288

Consumer Power Company 1955 **West Parn**all Road Jackson, MI 49201

> 4695 West Jefferson Trenton, MI 48183

Fischer Body 3001 Van Dyke Avenue Warren, MI 48093

Irving Dubrinskey P.O. Box 32622 Detroit, MI 48332

James Clark 2713 Earle Place Detroit, MI 48208

Kapp Enterprises 13450 Farmington Road Livonia, MI 48150

Rouge Steel Company Ford Motor Company 3001 Miller Road Dearborn, MI 48120

Attn: Walter J. McCarthy Detroit Edison 2000 Second Avenue Detroit, MI 48226

W.C. Electric Company 5449 Sylvia Dearborn Heights, MI 48216

Attn: W.F. Guaghan, Sup. City of Detroit City of Detroit
Dept.Public Lighting 9449 Grinnell Avenue Detroit, MI 48213-1176

> Attn: William L. Cotter Cotter Electric 160 Catrell Howell, MI 48843

Attn: Morton Sterling, Dir. Environmental Protection Detroit Edison 2060 2nd Street Detroit, MI

Ford Motor Company Attn: Rolf W. Quisling Parklane Towers West, Ste 401 One Parklane Boulevard Dearborn, Michigan 48126

Volkswagon Attn: Legal Department 15 Miles Road Sterling Heights, MI 48211

Myra Carter 1826 Chatham Troy, MI 48084

Attn: Jerold R. Minkin Minkin Chandler 13501 Sanders Detroit, MI 48217

GM Iron Plant Saginaw Grey Iron Plt. 1629 N.Washington Av. Saginaw, MI 48601